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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/697,129	10/29/2003	Miki Moriyama	5267-72PCON	9745	
27799	7590 12/21/2004		EXAM	EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE			MAI, A	MAI, ANH D	
551 FIFTH A' SUITE 1210	VENUE		ART UNIT	PAPER NUMBER	
NEW YORK,	NEW YORK, NY 10176		2814		
			DATE MAILED: 12/21/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)			
Office Action Summary		10/697,129	MORIYAMA ET AL.			
		Examiner	Art Unit			
		Anh D. Mai	2814			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 29 (October 2003.				
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3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ 6)⊠ 7)⊠ 8)□ Applicat 9)⊠	Claim(s) 1-3 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1 is/are rejected. Claim(s) 2 and 3 is/are objected to. Claim(s) are subject to restriction and/ ion Papers The specification is objected to by the Examin The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the	awn from consideration. for election requirement. her. herecepted or b)□ objected to by the edrawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date 10/29/03.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal 6) Other:				

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested:

SEMICONDUCTOR RADIATION DETECTOR HAVING VOLTAGE APPLICATION

MEANS COMPRISES In_xCd_yTe_z ON CdTe SEMICONDUCTOR SUBSTRATE.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Harris et al. (U.S. Patent No. 5,510,644).

Harris teaches a semiconductor radiation detector element of Schottky barrier type, as claimed including:

a compound semiconductor crystal (17) including cadmium and tellurium as main components; and

voltage application means (18) for applying voltage to the compound semiconductor crystal (17), the voltage application means including a compound of indium, cadmium and

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tellurium: $In_xCd_yTe_z$ formed on one surface of the compound semiconductor crystal (17). (See Fig. 1).

Allowable Subject Matter

- 3. Claims 2 and 3 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- The following is a statement of reasons for the indication of allowable subject matter: prior art of record fails to teach a semiconductor radiation detector element of Schottky barrier type having a voltage application means including a compound of indium, cadmium and tellurium: $In_xCd_yTe_z$ wherein "z" is within the range of $42.9\% \le z \ge 50\%$ or "y" is within the range of $0\% \le z \ge 10\%$.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 4,190,486 Kyle

U.S. Patent No. 4,132,999 Maille et al.

U.S. Patent No. 5,391,882 Rhiger

U.S. Patent No. 6,011,264 Lachish et al.

U.S. Patent No.6,114,738 Tregilgas et al.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh D. Mai whose telephone number is (571) 272-1710. The examiner can normally be reached on 9:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anh D. Mai

December 13, 200